In the Claims

The following claims will replace all prior versions of the claims.

1-5.   (Canceled)

6.   (Currently amended) A method of analyzing an input signal into a plurality of frequency components comprising:

processing the input signal with a first low pass filter to produce a first low pass filtered signal;

subtracting the first low pass filtered signal from the input signal to derive a first frequency component;

processing the input signal with a second low pass filter to produce a second low pass filtered signal; [[and]]

subtracting the second low pass filtered signal from the ~~first low pass filtered~~ input signal to derive a second frequency component[[.]]; and

        outputting the first frequency component and the second frequency component.

7-19.   (Canceled)

20.   (Currently amended) A system for analyzing an input signal into a plurality of frequency components comprising:

a first low pass filter that outputs a first low pass filtered signal;

a first processor configured to subtract the first low pass filtered signal from the input signal to ~~derive~~ output a first frequency component;

a second low pass filter <u>configured to process the input signal and</u> ~~that~~

output[[s]] a second low pass filtered signal; and

a second processor configured to subtract the second low pass filtered signal

from the <u>input</u> ~~first low pass filtered~~ signal to ~~derive~~ <u>output</u> a second frequency

component.

21. (Currently amended) A system for analyzing an input signal into a plurality

of frequency components comprising:

a first low pass filter that outputs a first low pass filtered signal;

a first processor configured to subtract the first low pass filtered signal from

the input signal to ~~derive~~ <u>output</u> a first frequency component;

a second low pass filter configured to process the low pass filtered signal to

produce a second low pass filtered signal; and

a second processor configured to subtract the second low pass filtered signal

from the first low pass filtered signal to ~~derive~~ <u>output</u> a second frequency

component.

22-25. (Cancelled)